RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/664,025A
Source: IFW16
Date Processed by STIC: 9/22/06

ENTERED

IFW16

RAW SEQUENCE LISTING DATE: 09/22/2006
PATENT APPLICATION: US/10/664,025A TIME: 11:05:03

Input Set : F:\G-077US03DIV-Seq-List-replace.TXT
Output Set: N:\CRF4\09222006\J664025A.raw

```
      3 <110> APPLICANT: Dumas Milne Edwards, J.B.
      4       Jobert, S.
      5       Giordano, J.Y.
W-->   6 <120> TITLE OF INVENTION: ESTs and Encoded Human Proteins.
W-->   7 <130> FILE REFERENCE: GENSET.054PR2
C-->   8 <140> CURRENT APPLICATION NUMBER: US/10/664,025A
C-->   8 <141> CURRENT FILING DATE: 2003-09-15
W-->   8 <160> NUMBER OF SEQ ID: 19379
       9 <170> SOFTWARE: Patent.pm
W-->  10 <210> SEQ ID NO: 1
      11 <211> LENGTH: 822
      12 <212> TYPE: DNA
      13 <213> ORGANISM: Homo Sapiens
W-->  14 <220> FEATURE:
      15 <221> NAME/KEY: CDS
      16 <222> LOCATION: 346..552
W-->  17 <220> FEATURE:
      18 <221> NAME/KEY: sig_peptide
      19 <222> LOCATION: 346..408
      20 <223> OTHER INFORMATION: Von Heijne matrix
W-->  21 <220> FEATURE:
      22 <221> NAME/KEY: misc_feature
      23 <222> LOCATION: 115
      24 <223> OTHER INFORMATION: n=a, g, c or t
W-->  25 <400> SEQUENCE: 1
      26 actcctttta gcataggggc ttcggcgcca gcggccagcg ctagtcggtc tggtaagtgc     60
W-->  27 ctgatgccga gttccgtctc tcgcgtcttt tcctggtccc aggcaaagcg gasgnagatc    120
      28 ctcaaacggc ctagtgcttc gcgcttccgg agaaaatcag cggtctaatt aattcctctg    180
      29 gtttgttgaa gcagttacca agaatcttca acccttccc acaaaagcta attgagtaca    240
      30 cgttcctgtt gagtacacgt tcctgttgat ttacaaaagg tgcaggtatg agcaggtctg    300
      31 aagactaaca ttttgtgaag ttgtaaaaca gaaaacctgt tagaa atg tgg tgg ttt    357
      32                                                  Met Trp Trp Phe
      33                                                      -20
      34 cag caa ggc ctc agt ttc ctt cct tca gcc ctt gta att tgg aca tct     405
      35 Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val Ile Trp Thr Ser
      36         -15                 -10                 -5
      37 gct gct ttc ata ttt tca tac att act gca gta aca ctc cac cat ata     453
      38 Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr Leu His His Ile
      39     1               5                  10                  15
      40 gac ccg gct tta cct tat atc agt gac act ggt aca gta gct cca raa     501
      41 Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr Val Ala Pro Xaa
      42                 20                  25                  30
      43 aaa tgc tta ttt ggg gca atg cta aat att gcg gca gtt tta tgt caa     549
```

pp 6-9

RAW SEQUENCE LISTING DATE: 09/22/2006
PATENT APPLICATION: **US/10/664,025A** TIME: 11:05:03

Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

```
     44 Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala Val Leu Cys Gln
     45             35                  40                  45
     46 aaa tagaaatcag gaarataatt caacttaaag aakttcattt catgaccaaa          602
     47 Lys
     48 ctcttcaraa acatgtcttt acaagcatat ctcttgtatt gctttctaca ctgttgaatt  662
     49 gtctggcaat atttctgcag tggaaaattt gatttarmta gttcttgact gataaatatg  722
     50 gtaaggtggg cttttccccc tgtgtaattg gctactatgt cttactgagc caagttgtaw  782
     51 tttgaaataa aatgatatga gagtgacaca aaaaaaaaaa                        822
     52 <210> SEQ ID NO: 2
     53 <211> LENGTH: 21
     54 <212> TYPE: PRT
     55 <213> ORGANISM: Homo Sapiens
W--> 56 <220> FEATURE:
     57 <221> NAME/KEY: SIGNAL
     58 <222> LOCATION: -21..-1
W--> 59 <400> SEQUENCE: 2
     60 Met Trp Trp Phe Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val
     61     -20                 -15                 -10
     62 Ile Trp Thr Ser Ala
     63 -5
     64 <210> SEQ ID NO: 3
     65 <211> LENGTH: 526
     66 <212> TYPE: DNA
     67 <213> ORGANISM: Homo Sapiens
W--> 68 <220> FEATURE:
     69 <221> NAME/KEY: CDS
     70 <222> LOCATION: 90..344
W--> 71 <220> FEATURE:
     72 <221> NAME/KEY: sig_peptide
     73 <222> LOCATION: 90..140
     74 <223> OTHER INFORMATION: Von Heijne matrix
W--> 75 <220> FEATURE:
     76 <221> NAME/KEY: misc_feature
     77 <222> LOCATION: 290
     78 <223> OTHER INFORMATION: n=a, g, c or t
W--> 79 <400> SEQUENCE: 3
     80 aatatrarac agctacaata ttccagggcc artcacttgc catttctcat aacagcgtca    60
     81 gagagaaaga actgactgar acgtttgag atg aag aaa gtt ctc ctc ctg atc     113
     82                              Met Lys Lys Val Leu Leu Leu Ile
     83                                  -15                 -10
     84 aca gcc atc ttg gca gtg gct gtw ggt ttc cca gtc tct caa gac cag     161
     85 Thr Ala Ile Leu Ala Val Ala Val Gly Phe Pro Val Ser Gln Asp Gln
     86                 -5                  1                   5
     87 gaa cga gaa aaa aga agt atc agt gac agc gat gaa tta gct tca ggr     209
     88 Glu Arg Glu Lys Arg Ser Ile Ser Asp Ser Asp Glu Leu Ala Ser Gly
     89         10                  15                  20
     90 wtt ttt gtg ttc cct tac cca tat cca ttt cgc cca ctt cca cca att     257
W--> 91 Xaa Phe Val Phe Pro Tyr Pro Tyr Pro Phe Arg Pro Leu Pro Pro Ile
     92     25                  30                  35
```

RAW SEQUENCE LISTING DATE: 09/22/2006
PATENT APPLICATION: **US/10/664,025A** TIME: 11:05:03

Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

```
     93 cca ttt cca aga ttt cca tgg ttt aga cgt aan ttt cct att cca ata      305
     94 Pro Phe Pro Arg Phe Pro Trp Phe Arg Arg Xaa Phe Pro Ile Pro Ile
     95 40                  45                  50                  55
     96 cct gaa tct gcc cct aca act ccc ctt cct agc gaa aag taaacaaraa       354
     97 Pro Glu Ser Ala Pro Thr Thr Pro Leu Pro Ser Glu Lys
     98                 60                  65
     99 ggaaaagtca crataaacct ggtcacctga aattgaaatt gagccacttc cttgaaraat    414
    100 caaaattcct gttaataaaa raaaaacaaa tgtaattgaa atagcacaca gcattctcta    474
    101 gtcaatatct ttagtgatct tctttaataa acatgaaagc aaaaaaaaaa aa             526
    102 <210> SEQ ID NO: 4
    103 <211> LENGTH: 17
    104 <212> TYPE: PRT
    105 <213> ORGANISM: Homo Sapiens
W--> 106 <220> FEATURE:
    107 <221> NAME/KEY: SIGNAL
    108 <222> LOCATION: -17..-1
W--> 109 <400> SEQUENCE: 4
    110 Met Lys Lys Val Leu Leu Leu Ile Thr Ala Ile Leu Ala Val Ala Val
    111         -15                 -10                 -5
    112 Gly
    113 <210> SEQ ID NO: 5
    114 <211> LENGTH: 848
    115 <212> TYPE: DNA
    116 <213> ORGANISM: Homo Sapiens
W--> 117 <220> FEATURE:
    118 <221> NAME/KEY: CDS
    119 <222> LOCATION: 32..697
W--> 120 <220> FEATURE:
    121 <221> NAME/KEY: sig_peptide
    122 <222> LOCATION: 32..73
    123 <223> OTHER INFORMATION: Von Heijne matrix
W--> 124 <400> SEQUENCE: 5
    125 aactttgcct tgtgttttcc accctgaaag a atg ttg tgg ctg ctc ttt ttt        52
    126                                  Met Leu Trp Leu Leu Phe Phe
    127                                                  -10
    128 ctg gtg act gcc att cat gct gaa ctc tgt caa cca ggt gca gaa aat      100
    129 Leu Val Thr Ala Ile His Ala Glu Leu Cys Gln Pro Gly Ala Glu Asn
    130         -5                  1               5
    131 gct ttt aaa gtg aga ctt agt atc aga aca gct ctg gga gat aaa gca      148
    132 Ala Phe Lys Val Arg Leu Ser Ile Arg Thr Ala Leu Gly Asp Lys Ala
    133 10                  15                  20                  25
    134 tat gcc tgg gat acc aat gaa gaa tac ctc ttc aaa gcg atg gta gct      196
    135 Tyr Ala Trp Asp Thr Asn Glu Glu Tyr Leu Phe Lys Ala Met Val Ala
    136                 30                  35                  40
    137 ttc tcc atg aga aaa gtt ccc aac aga gaa gca aca gaa att tcc cat      244
    138 Phe Ser Met Arg Lys Val Pro Asn Arg Glu Ala Thr Glu Ile Ser His
    139             45                  50                  55
    140 gtc cta ctt tgc aat gta acc cag agg gta tca ttc tgg ttt gtg gtt      292
    141 Val Leu Leu Cys Asn Val Thr Gln Arg Val Ser Phe Trp Phe Val Val
```

RAW SEQUENCE LISTING DATE: 09/22/2006
PATENT APPLICATION: **US/10/664,025A** TIME: 11:05:03

Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

```
     142         60                  65                  70
     143 aca gac cct tca aaa aat cac acc ctt cct gct gtt gag gtg caa tca      340
     144 Thr Asp Pro Ser Lys Asn His Thr Leu Pro Ala Val Glu Val Gln Ser
     145     75                  80                  85
     146 gcc ata aga atg aac aag aac cgg atc aac aat gcc ttc ttt cta aat      388
     147 Ala Ile Arg Met Asn Lys Asn Arg Ile Asn Asn Ala Phe Phe Leu Asn
     148 90                  95                  100                 105
     149 gac caa act ctg gaa ttt tta aaa atc cct tcc aca ctt gca cca ccc      436
     150 Asp Gln Thr Leu Glu Phe Leu Lys Ile Pro Ser Thr Leu Ala Pro Pro
     151                 110                 115                 120
     152 atg gac cca tct gtg ccc atc tgg att att ata ttt ggt gtg ata ttt      484
     153 Met Asp Pro Ser Val Pro Ile Trp Ile Ile Ile Phe Gly Val Ile Phe
     154             125                 130                 135
     155 tgc atc atc ata gtt gca att gca cta ctg att tta tca ggg atc tgg      532
     156 Cys Ile Ile Ile Val Ala Ile Ala Leu Leu Ile Leu Ser Gly Ile Trp
     157         140                 145                 150
     158 caa cgt ada ara aag aac aaa gaa cca tct gaa gtg gat gac gct gaa      580
W--> 159 Gln Arg Xaa Xaa Lys Asn Lys Glu Pro Ser Glu Val Asp Asp Ala Glu
     160     155                 160                 165
     161 rat aak tgt gaa aac atg atc aca att gaa aat ggc atc ccc tct gat      628
     162 Xaa Xaa Cys Glu Asn Met Ile Thr Ile Glu Asn Gly Ile Pro Ser Asp
     163 170                 175                 180                 185
     164 ccc ctg gac atg aag gga ggg cat att aat gat gcc ttc atg aca gag      676
     165 Pro Leu Asp Met Lys Gly Gly His Ile Asn Asp Ala Phe Met Thr Glu
     166                 190                 195                 200
     167 gat gag agg ctc acc cct ctc tgaagggctg ttgttctgct tcctcaaraa         727
     168 Asp Glu Arg Leu Thr Pro Leu
     169             205
     170 attaaacatt tgtttctgtg tgactgctga gcatcctgaa ataccaagag cagatcatat    787
     171 wttttgtttc accattcttc ttttgtaata aattttgaat gtgcttgaaa aaaaaaaaaa    847
     172 c                                                                 848
     173 <210> SEQ ID NO: 6
     174 <211> LENGTH: 14
     175 <212> TYPE: PRT
     176 <213> ORGANISM: Homo Sapiens
W--> 177 <220> FEATURE:
     178 <221> NAME/KEY: SIGNAL
     179 <222> LOCATION: -14..-1
W--> 180 <400> SEQUENCE: 6
     181 Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala
     182                 -10                 -5
     183 <210> SEQ ID NO: 7
     184 <211> LENGTH: 826
     185 <212> TYPE: DNA
     186 <213> ORGANISM: Homo sapiens
W--> 187 <220> FEATURE:
     188 <221> NAME/KEY: CDS
     189 <222> LOCATION: 15..695
W--> 190 <220> FEATURE:
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RAW SEQUENCE LISTING DATE: 09/22/2006
PATENT APPLICATION: **US/10/664,025A** TIME: 11:05:03

Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

```
191 <221> NAME/KEY: sig_peptide
192 <222> LOCATION: 15..80
193 <223> OTHER INFORMATION: Von Heijne matrix
194       score 8.5
195       seq AALLLGLMMVVTG/DE
W--> 196 <400> SEQUENCE: 7
197 aaccagaggt gccc atg ggt tgg aca atg agg ctg gtc aca gca gca ctg       50
198                 Met Gly Trp Thr Met Arg Leu Val Thr Ala Ala Leu
199                          -20                 -15
200 tta ctg ggt ctc atg atg gtg gtc act gga gac gag gat gag aac agc       98
201 Leu Leu Gly Leu Met Met Val Val Thr Gly Asp Glu Asp Glu Asn Ser
202 -10                 -5                  1               5
203 ccg tgt gcc cat gag gcc ctc ctg gac gag gac acc ctc ttt tgc cag      146
204 Pro Cys Ala His Glu Ala Leu Leu Asp Glu Asp Thr Leu Phe Cys Gln
205             10                  15                  20
206 ggc ctt gaa gtt ttc tac cca gag ttg ggg aac att ggc tgc aag gtt      194
207 Gly Leu Glu Val Phe Tyr Pro Glu Leu Gly Asn Ile Gly Cys Lys Val
208         25                  30                  35
209 gtt cct gat tgt aac aac tac aga cag aag atc acc tcc tgg atg gag      242
210 Val Pro Asp Cys Asn Asn Tyr Arg Gln Lys Ile Thr Ser Trp Met Glu
211     40                  45                  50
212 ccg ata gtc aag ttc ccg ggg gcc gtg gac ggc gca acc tat atc ctg      290
213 Pro Ile Val Lys Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu
214 55                  60                  65                  70
215 gtg atg gtg gat cca gat gcc cct agc aga gca gaa ccc aga cag aga      338
216 Val Met Val Asp Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg
217                 75                  80                  85
218 ttc tgg aga cat tgg ctg gta aca gat atc aag ggc gcc gac ctg aag      386
219 Phe Trp Arg His Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys
220             90                  95                  100
221 aaa ggg aag att cag ggc cag gag tta tca gcc tac cag gct ccc tcc      434
222 Lys Gly Lys Ile Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser
223         105                 110                 115
224 cca ccg gca cac agt ggc ttc cat cgc tac cag ttc ttt gtc tat ctt      482
225 Pro Pro Ala His Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu
226     120                 125                 130
227 cag gaa gga aag gtc atc tct ctc ctt ccc aag gaa aac aaa act cga      530
228 Gln Glu Gly Lys Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg
229 135                 140                 145                 150
230 ggc tct tgg aaa atg gac aga ttt ctg aac cgt ttc cac ctg ggc gaa      578
231 Gly Ser Trp Lys Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu
232                 155                 160                 165
233 cct gaa gca agc acc cag ttc atg acc cag aac tac cag gac tca cca      626
234 Pro Glu Ala Ser Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro
235             170                 175                 180
236 acc ctc cag gct ccc aga gaa agg gcc agc gag ccc aag cac aaa aac      674
237 Thr Leu Gln Ala Pro Arg Glu Arg Ala Ser Glu Pro Lys His Lys Asn
238         185                 190                 195
239 cag gcg gag ata gct gcc tgc tagatagccg gctttgccat ccgggcatgt        725
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/22/2006
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Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 115
Seq#:1; Xaa Pos. 31
Seq#:3; N Pos. 290
Seq#:3; Xaa Pos. 24,50
Seq#:5; Xaa Pos. 156,157,170,171
Seq#:20; N Pos. 335,376
Seq#:24; Xaa Pos. 6
Seq#:25; N Pos. 25
Seq#:25; Xaa Pos. 16,17
Seq#:27; Xaa Pos. -10
Seq#:30; Xaa Pos. -24,7,13
Seq#:31; Xaa Pos. 13
Seq#:33; Xaa Pos. 9
Seq#:34; Xaa Pos. -5,9,11,12,18,19,26
Seq#:35; N Pos. 9
Seq#:35; Xaa Pos. -5
Seq#:36; Xaa Pos. 2
Seq#:38; Xaa Pos. 18,19,45,47,55
Seq#:39; Xaa Pos. 30
Seq#:41; Xaa Pos. -15,7
Seq#:42; Xaa Pos. 28,52,54,96,101,105
Seq#:46; N Pos. 8
Seq#:46; Xaa Pos. 119
Seq#:48; Xaa Pos. -18
Seq#:50; N Pos. 236,237
Seq#:50; Xaa Pos. -32,-30,-28,-25,-20,-17,-16,5,9,16
Seq#:52; Xaa Pos. 78
Seq#:54; Xaa Pos. 83
Seq#:55; Xaa Pos. 54,56,59
Seq#:58; Xaa Pos. -14,9,24,36
Seq#:60; Xaa Pos. -20
Seq#:61; Xaa Pos. 28,48
Seq#:62; Xaa Pos. -25
Seq#:63; Xaa Pos. -15,7,8,27
Seq#:67; Xaa Pos. 35
Seq#:69; Xaa Pos. 50,101
Seq#:71; Xaa Pos. 35
Seq#:73; Xaa Pos. 28,41,42
Seq#:74; Xaa Pos. 26
Seq#:75; Xaa Pos. 26
Seq#:77; N Pos. 12
Seq#:77; Xaa Pos. 24
Seq#:79; N Pos. 10,360
Seq#:79; Xaa Pos. 24

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/22/2006
PATENT APPLICATION: **US/10/664,025A** TIME: 11:05:04

Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

Seq#:80; N Pos. 233
Seq#:80; Xaa Pos. 1
Seq#:81; Xaa Pos. 41
Seq#:82; Xaa Pos. 46
Seq#:84; Xaa Pos. 22
Seq#:88; N Pos. 89,90,95,255
Seq#:88; Xaa Pos. -72,-39,-28,-22,-8

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:4846; Line(s) 147297
Seq#:6835; Line(s) 186255

VERIFICATION SUMMARY DATE: 09/22/2006
PATENT APPLICATION: **US/10/664,025A** TIME: 11:05:04

Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

```
L:6 M:283 W: Missing Blank Line separator, <120> field identifier
L:7 M:283 W: Missing Blank Line separator, <130> field identifier
L:8 M:270 C: Current Application Number differs, Replaced Current Application No
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:8 M:283 W: Missing Blank Line separator, <160> field identifier
L:10 M:283 W: Missing Blank Line separator, <210> field identifier
L:14 M:283 W: Missing Blank Line separator, <220> field identifier
L:17 M:283 W: Missing Blank Line separator, <220> field identifier
L:21 M:283 W: Missing Blank Line separator, <220> field identifier
L:25 M:283 W: Missing Blank Line separator, <400> field identifier
L:27 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
M:341 Repeated in SeqNo=1
L:56 M:283 W: Missing Blank Line separator, <220> field identifier
L:59 M:283 W: Missing Blank Line separator, <400> field identifier
L:68 M:283 W: Missing Blank Line separator, <220> field identifier
L:71 M:283 W: Missing Blank Line separator, <220> field identifier
L:75 M:283 W: Missing Blank Line separator, <220> field identifier
L:79 M:283 W: Missing Blank Line separator, <400> field identifier
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:257
M:341 Repeated in SeqNo=3
L:106 M:283 W: Missing Blank Line separator, <220> field identifier
L:109 M:283 W: Missing Blank Line separator, <400> field identifier
L:117 M:283 W: Missing Blank Line separator, <220> field identifier
L:120 M:283 W: Missing Blank Line separator, <220> field identifier
L:124 M:283 W: Missing Blank Line separator, <400> field identifier
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:580
M:341 Repeated in SeqNo=5
L:177 M:283 W: Missing Blank Line separator, <220> field identifier
L:180 M:283 W: Missing Blank Line separator, <400> field identifier
L:187 M:283 W: Missing Blank Line separator, <220> field identifier
L:190 M:283 W: Missing Blank Line separator, <220> field identifier
L:196 M:283 W: Missing Blank Line separator, <400> field identifier
L:248 M:283 W: Missing Blank Line separator, <220> field identifier
L:251 M:283 W: Missing Blank Line separator, <400> field identifier
L:286 M:283 W: Missing Blank Line separator, <220> field identifier
L:289 M:283 W: Missing Blank Line separator, <220> field identifier
L:295 M:283 W: Missing Blank Line separator, <400> field identifier
L:358 M:283 W: Missing Blank Line separator, <220> field identifier
L:361 M:283 W: Missing Blank Line separator, <400> field identifier
L:403 M:283 W: Missing Blank Line separator, <220> field identifier
L:406 M:283 W: Missing Blank Line separator, <220> field identifier
L:412 M:283 W: Missing Blank Line separator, <400> field identifier
L:438 M:283 W: Missing Blank Line separator, <220> field identifier
L:441 M:283 W: Missing Blank Line separator, <400> field identifier
L:456 M:283 W: Missing Blank Line separator, <220> field identifier
L:459 M:283 W: Missing Blank Line separator, <220> field identifier
L:465 M:283 W: Missing Blank Line separator, <400> field identifier
L:510 M:283 W: Missing Blank Line separator, <220> field identifier
```

VERIFICATION SUMMARY DATE: 09/22/2006
PATENT APPLICATION: **US/10/664,025A** TIME: 11:05:04

Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

```
L:513 M:283 W: Missing Blank Line separator, <400> field identifier
L:534 M:283 W: Missing Blank Line separator, <220> field identifier
L:536 M:283 W: Missing Blank Line separator, <400> field identifier
L:542 M:283 W: Missing Blank Line separator, <220> field identifier
L:544 M:283 W: Missing Blank Line separator, <400> field identifier
L:550 M:283 W: Missing Blank Line separator, <220> field identifier
L:553 M:283 W: Missing Blank Line separator, <220> field identifier
L:557 M:283 W: Missing Blank Line separator, <220> field identifier
L:564 M:283 W: Missing Blank Line separator, <220> field identifier
L:571 M:283 W: Missing Blank Line separator, <220> field identifier
L:857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:300
M:341 Repeated in SeqNo=20
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:213
L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:1145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:407
L:1250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:177
M:341 Repeated in SeqNo=30
L:1287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:201
L:1377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:270
L:1415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:286
M:341 Repeated in SeqNo=34
L:1444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
M:341 Repeated in SeqNo=35
L:1494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:343
L:1571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:208
M:341 Repeated in SeqNo=38
L:1616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:259
L:1692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:113
M:341 Repeated in SeqNo=41
L:1739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:196
M:341 Repeated in SeqNo=42
L:1892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
M:341 Repeated in SeqNo=46
L:1985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:351
L:2067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:200
M:341 Repeated in SeqNo=50
L:2156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:402
L:2242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:341
L:2287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:484
M:341 Repeated in SeqNo=55
L:2394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:222
M:341 Repeated in SeqNo=58
L:2457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:159
L:2492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:198
M:341 Repeated in SeqNo=61
L:2515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:57
L:2551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:222
M:341 Repeated in SeqNo=63
```

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Input Set : **F:\G-077US03DIV-Seq-List-replace.TXT**
Output Set: **N:\CRF4\09222006\J664025A.raw**

L:2692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:478
L:2754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:302
M:341 Repeated in SeqNo=69
L:2825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:329
L:2893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:199
L:15224 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:390
L:15244 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:391
L:15279 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:392
L:15305 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:393
L:15679 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:405
L:15792 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:408
L:15846 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:410
L:15872 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:411
L:15957 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:414
L:16032 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:416
L:16088 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:418
L:16105 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:419
L:16262 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:424
L:16290 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:425
L:16385 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:429
L:16520 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:433
L:16658 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:438
L:16691 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:439
L:16725 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:440
L:16756 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:441
L:16846 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:444
L:17450 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:462
L:17504 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:464
L:17757 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:472
L:17804 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:473
L:17852 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:475
L:17912 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:477
L:18051 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:482
L:18110 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:484
L:18165 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:486
L:18196 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:487
L:18333 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:492
L:18369 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:493
L:18622 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:502
L:18684 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:504
L:18790 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:507
L:18937 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:512
L:18955 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:513
L:19364 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:526
L:19418 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:527
L:19481 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:529
L:19607 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:534
L:19699 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:537
L:19888 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:543

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L:19915 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:544
L:20069 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:549
L:20356 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:558
L:21062 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:581
L:21131 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:583
L:21167 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:584